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DECEMBER 19, 2000

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LAW OFFICES OF MICHAEL DRYJA
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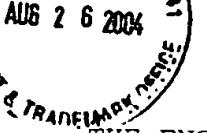
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RECORDATION DATE: 08/30/2000

REEL/FRAME: 011175/0706
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BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BRADLEY, PAUL S.

DOC DATE: 08/11/2000

ASSIGNOR:

FAYYAD, USAMA M.

DOC DATE: 08/11/2000

ASSIGNOR:

OJJEH, BASSEL Y.

DOC DATE: 08/11/2000

ASSIGNEE:

MICROSOFT CORPORATION
ONE MICROSOFT WAY
REDMOND, WASHINGTON 98052

25-APP
ACCT# 141503.1
APPLICATION

SERIAL NUMBER: 09540637

FILING DATE: 03/31/2000
ISSUE DATE:

PATENT NUMBER:

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Microsoft Patent Dept.

DEC 29 2000

JAN 03 2001

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011175/0706 PAGE 2

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
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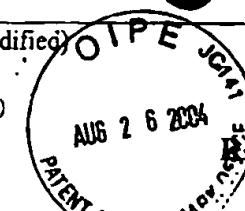
10-30-2000

Docket No. 1018.085US1

Form PTO -1595 (Modified)

(Rev. 6/93)

OMB 0651-0011 (exp. 4/94)



U.S. Department of Commerce
Patent and Trademark Office
PATENT

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

TO: The Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies):

Paul S. Bradley

8-39-00

Usama M. FayyadBassel Y. Ojjeh

2. Nature of Conveyance:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Assignment | <input type="checkbox"/> Security Agreement |
| <input type="checkbox"/> License | <input type="checkbox"/> Change of Name |
| <input type="checkbox"/> Merger | <input type="checkbox"/> Other |

Execution Date: 8/11/2000

3. Name and address of receiving party(ies):

Name: Microsoft CorporationAddress: One Microsoft WayCity: RedmondState: WACountry: USAZIP: 98052

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

09/540,637

Patent No.(s)

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5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Michael DryjaRegistration No.: 39,662Address: Law Offices of Michael Dryja
704 228th Ave NE PMB 694City: Redmond
Country: USA
Telephone: 425-427-5094State: WA
ZIP: 980536. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00 Enclosed Authorized to be charged to credit card as indicated by attached Form 2038.

8. Deposit account number:

10-30-2000 DEPT 1000 00000000 00540637

cc: FC:581

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9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Michael Dryja

Name of Person Signing

Signature

8-24-02

Date

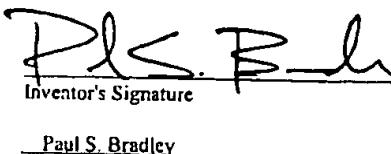
ASSIGNMENT

WHEREAS, we, Paul S. Bradley, Usama M. Fayyad, and Bassel Y. Ojjeh (hereinafter referred to as ASSIGNORS), are the joint inventors of an invention entitled Cluster- and Descriptor-Based Recommendations as described and claimed in the specification forming part of an application for United States letters patent filed on 3/31/2000, and assigned Serial No. 09/540,637;

WHEREAS, Microsoft Corporation (hereinafter referred to as ASSIGNEE), a corporation of the State of Washington having a place of business at One Microsoft Way, Redmond, WA 98052, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefore in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefore.

IN WITNESS WHEREOF, We have hereunto signed our names on the day and year set forth below.

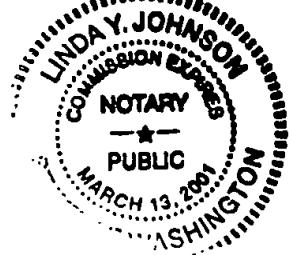

Inventor's Signature

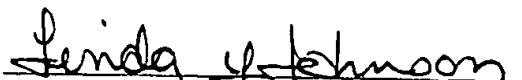
9/26/2000
DATE

Paul S. Bradley
Inventor's Printed Name

STATE OF Washington)
COUNTY OF King) SS

On this 26 day of April, 2000, before me personally came the above named Paul S. Bradley who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.




Linda Y. Johnson
NOTARY PUBLIC
My Commission Expires: 3-13-2001

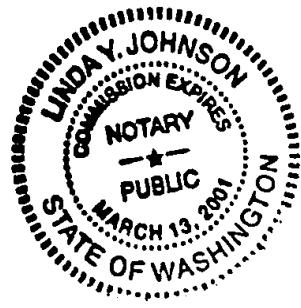
U.M. FAYYAD

Inventor's Signature

Usama M. Fayyad
Inventor's Printed Name

STATE OF washington)
COUNTY OF King) SS

On this 9 day of June 2000, before me personally came the above named Usama M. Fayyad who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



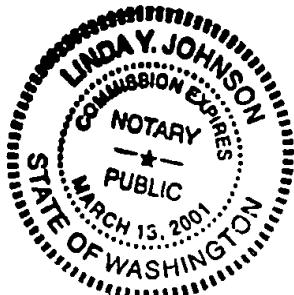
Linda Y. Johnson
NOTARY PUBLIC
My Commission Expires: 3-13-2001

Bassel Y. Ojeh

Inventor's Printed Name

STATE OF washington)
COUNTY OF King) SS

On this 11 day of August 2000, before me personally came the above named Bassel Y. Ojeh who is personally known by me or proved to me on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.



Linda Y. Johnson
NOTARY PUBLIC
My Commission Expires: 3-13-2001



CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop AF, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450
- transmitted by facsimile on the date shown below to the United States Patent and Trademark Office at (703) _____.

8/26/2004
Date



Signature

Courtney Scanlon

Type or Print Name